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| Form PTO-1449 | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | | ATTY. DKT. NO. 1021.41260X00 | SERIAL NO. not assigned |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary) | | APPLICANT KIKUGAWA, et al. | | |
| | | FILING DATE February 26, 2002 | GROUP not assigned | |

U.S. PATENT DOCUMENTS

| Examiner Initial | Document Number | Date | Name | Class | Subclass | Filing Date |
|------------------|-----------------|------|------|-------|----------|-------------|
| AA | | | | | | |
| AB | | | | | | |
| AC | | | | | | |
| AD | | | | | | |
| AE | | | | | | |
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| AJ | | | | | | |
| AK | | | | | | |
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FOREIGN PATENT DOCUMENTS

| Examiner Initial | Document Number | Date | Country | Class | Subclass | Translation | |
|------------------|-----------------|------|---------|-------|----------|-------------|----|
| | | | | | | Yes | No |
| AM | | | | | | | |
| AN | | | | | | | |
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| AP | | | | | | | |
| AQ | | | | | | | |
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| AS | | | | | | | |
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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| AU | "High SN ratio and signal-stability in trible layer perprndicular media", NISHIHARA, Journal of the Magnetics Society of Japan, vol. 21, No.S1, pp.104-108(1997) |
| AV | "Observation of Underlayer Domain Noise in Perpendicular Recording Disks" DARRAGH, IEEE Transactions on Magnetics, vol. 29, No. 6, pp3742-3744(1993) |
| AW | Magrow Hill, Communication Modes, pp 125-126 (in japanese) |

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| Examiner | Date Considered |
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